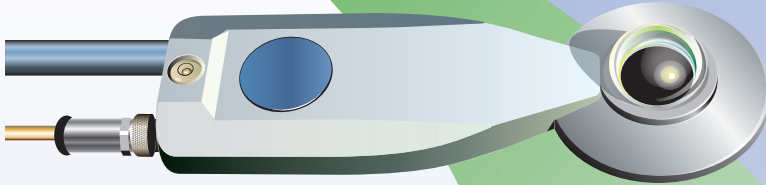
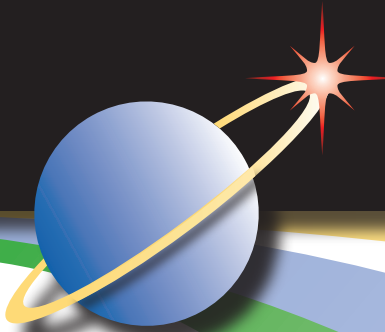


# Net Radiometer

CNR 2



The Kipp & Zonen CNR 2 accurately measures net shortwave and net longwave radiation with a single instrument and provides separate outputs for each radiation type. The CNR 2 has similar accuracy to the Kipp & Zonen CNR 1 and is half the cost.

## Specifications

	<u>Pyranometer</u>	<u>Pyrgeometer</u>
Range	0 to 4000 W m <sup>-2</sup>	-250 to 250 W m <sup>-2</sup>
Non-linearity	(0 to 1000 W m <sup>-2</sup> ) < 2%	(-250 to 250 W m <sup>-2</sup> ) < 1%
Spectral Range (50% points)	0.31 to 2.8 μm	4.5 to 42 μm
Field of View	Upper: 180° Lower: 150°	Upper: 150° Lower: 150°
Zero offset	< 15 W m <sup>-2</sup>	not applicable
Directional error	< 20 W m <sup>-2</sup>	
Operating environment	- 40 to 80 °C. Designed for continuous outdoor use.	
Response time 95%	10 s	
Temperature error	(-10 to 40 °C) < 5%	
Sensor asymmetry	< 5%	
Sensitivity	10 to 20 μV per W m <sup>-2</sup> (for both short and longwave)	
Annual sensitivity change	< 1%	
Tilt error	< 1%	
Uncertainty in daily total	< 10%	
Cable	10 meters	
Dimensions	4 x 20 x 7 cm long. 30 cm mounting rod.	
Mass	250 g (add 300 g for 10 m cable)	
Warranty	1 year parts and labor	